ENVIRONMENTAL CHEMISTS

Date of Report: 03/09/00 Date Received: 02/10/00

Project: Metro Self Monitor, PO# M63545

Date Extracted: 02/15/00 Date Analyzed: 02/15/00

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	Zinc
Laboratory ID				
M63545	0.30	0.25	0.31	< 0.05
002065-01				
Method Blan	k <0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 03/09/00 Date Received: 02/10/00

Project: Metro Self Monitor, PO# M63545

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 002065-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.30	0.32	6	0-20
Copper	mg/L (ppm)	0.25	0.30	13	0-20
Nickel	mg/L (ppm)	0.31	0.33	6	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20

Laboratory Code: 002065-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ery % Recov	ery Acceptance	9 4.77
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	mg/L (ppm)	5	0.30	113	106	80-120	6
Copper	mg/L (ppm)	5	0.25	105	99	80-120	6
Nickel	mg/L (ppm)	10	0.31	116	108	80-120	7
Zinc	mg/L (ppm)	5	< 0.05	114	114	80-120	0

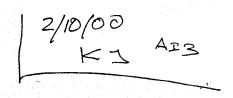
Laboratory Code: Laboratory Control Sample

	Reporting	Spike %	Recove	ery % Recove	ery Acceptance	e (Alamana	
Analyte	Units	Level	LCS	LCSD	Criteria	RP	$^{\mathrm{D}}$
Chromium	mg/L (ppm)	5	104	103	80-120	1	
Copper	mg/L (ppm)	5	114	115	80-120	1	
Nickel	mg/L (ppm)	10	104	102	80-120	2	
Zinc	mg/L (ppm)	5	104	101	80-120	3	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282





SAMPLE CHAIN OF CUSTODY

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SAMPLERS (signature)						ROJECT LOCATION	ON	
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Dispose af Return Sar Call for In							78	
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Sample #	Sampled	Sample	Jars	Sample #		Requested	<u> </u>	
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FORMS/COC

12/29/99

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 9, 2000

DUPLICATE COPY

INVOICE #00ACU0309-3

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M63545 - Results of testing requested by Gerry Thompson for material submitted on February 10, 2000.

FEDERAL TAX ID #(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 9, 2000

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 10, 2000 from your Metro Self Monitor, PO# M63545 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Dianne C. Shut

Dianne C. Hurt Project Manager

Enclosures ACU0309R.DOC